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PATENT SPECIFICATION

752,102



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COMPLETE SPECIFICATION

Improvements Relating to the Construction of Bodies for Combine Harvesters

We, AUGUST CLAAS and FRANZ CLAAS, both citizens of the German Federal Republic, the personally responsible partners of Firma Gebrüder Claas, of Harsewinkel, Westfalia, Germany, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

The present invention relates to improvements in a body or shell for use in a combine harvester.

In the construction of combine harvesters, attention is nowadays centred on constructing large bodies which, commensurate with the lowest possible weight, are stable and extremely sturdy. For this purpose, bodies fabricated from self-supporting metal sheets, and which are provided with reinforcing tubes generally arranged to extend transversely, have proved satisfactory.

It is an object of the present invention to provide a body or shell for use in a combine harvester which body or shell has transversely arranged reinforcing or stiffening tubes of improved construction.

According to the present invention there is provided a body or shell for use in a combine harvester which body or shell comprises transversely arranged reinforcing or stiffening tubes and wherein said tubes have portions protruding beyond the body or shell and providing mountings for combine harvester driving parts.

The body or shell may comprise variable speed pulleys mounted on said protruding portions of the tubes. Control rods for the variable speed pulleys may be located within said reinforcing tubes.

A gear box may be mounted on the protruding portion of a reinforcing or stiffening tube. There may be provided a revolving axle for the combine harvester driving parts which is located in alignment with a rein-

forcing or stiffening tube, said axle being hollow to permit extension therethrough of a control rod. A variable speed pulley may be mounted for rotation on a protruding tube portion by reason of it being keyed onto a revolving axle mounted coaxially with, and partly within said tube.

Reference is now made to the accompanying drawing which illustrates diagrammatically a combine harvester body embodying the present invention which is here given by way of example, the combine harvester being viewed from above.

Referring now to the drawing *a* designates a combine harvester body with two axles *b* and *c* which carry the wheels. Two reinforcing tubes *d* and *e* extend transversely across the body, being secured to each side wall of the body and protruding from the body at one side thereof. A combine harvester driving part is mounted on the protruding end of the reinforcing tube *d*, a gear box being mounted on the protruding end of the reinforcing tube *e*. A drive pulley is illustrated at *f* while the gear box is designated *g*.

With variable speed transmission it is important to adjust or control the effective diameter of the variable pulleys, where possible, from within. The rods necessary for this purpose are located within said reinforcing tubes as illustrated in the drawing in which *h* designates the rod operating the drive pulley, while *i* designates the rod which passes through the gear box.

As illustrated in the drawing, the arrangement may also be constructed in such way that a revolving axle *k* of the gear box is located in alignment with the reinforcing or stiffening tube *e*, and the axle *k* is hollow so that the control rod *i* operating the adjustable disc *l* of a variable speed pulley passes axially through the revolving axle *k*. It will be seen that the drive pulley *f* and the adjustable disc *l* are each mounted from 90

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